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Title: Coated fertilizer and its coating method and equipment for manufacturing said coated fertilizer			
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Abstract			
A coated fertilizer is prepared from animal glue, solubilizer, organic acid, inorganic acid, plant nutrient compound and cationic surfactant by spraying coating material (0.3-0.8%) onto surface of fertilizer particles whose nitrogen content is up to 46% in granulating tower. With said coated fertilizer, the yield is increased by 5-6% for rice, 7-8% for cane, 4-10% for peanut, 7-17% for vegetables, 10% for wheat, 13% for cotton.			

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TI Manufacture of coated ***fertilizer*** and its equipment
IN Chen, Dazhao; Yan, Zongbiao; Chen, Jihui; Yuan, Jiyan; He, Weijia; Chen, Suzhen
PA Guangzhou Nitrogenous Fertilizer Plant, Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 33 pp.
CODEN: CNXXEV
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PI	CN 1150941	A	19970604	CN 1996-105688	19960606
	CN 1040097	B	19981007		

AB The ***fertilizer*** is composed of ***granular***
fertilizer and coating material. The coating material is
composed
of animal glue 0.1-50, solubilizer 1-180, org. acid 0.05-30, inorg. acid
0.1-15, ***plant*** nutrient compd. 0.1-200, surfactant 0.1-15, and
water 5-450 parts, preferably animal glue 1-10, solubilizer 10- 100, org.
acid 1-10, inorg. acid 1-5, ***plant*** nutrient element compd.
10-120, surfactant 2-7, and water 100-300 parts. The org. acid is
selected from one or more of maleic acid, oxalic acid, lauric acid, formic

acid, acetic acid, ***humic*** ***acid***, citric acid, and adipic acid; the inorg. acid from one or more of H_3PO_4 , HCl , H_2SO_4 , HNO_3 , and H_3BO_3 ; the animal glue from one or more of hide glue, bone glue, and mixed glue; the ***plant*** nutrient element compd. from one or more of sulfate of Fe, Zn, Mn, Mo, Cu, Mg, Ti, and K; the solubilizer from one or more of urea, $(NH_4)_2SO_4$, NH_4NO_3 , $MgSO_4$, and NH_4 citrate; and the surfactant from quaternary cationics. The ***granular*** ***fertilizer*** is selected from one or more chem. ***fertilizer*** of N ***fertilizer***, P ***fertilizer***, and K ***fertilizer***, and ***humic*** ***acid*** ***fertilizer***. The N ***fertilizer*** is selected from one or more of urea, NH_4NO_3 , NH_4Cl , $(NH_4)_2SO_4$, and $Ca(NO_3)_2$; the P ***fertilizer*** from one or more of triple superphosphate, double superphosphate, $(NH_4)_3PO_4$, ammonium nitrophosphate, ammonium ureido- ***phosphate*** (Niaolin'an), NH_4 polyphosphate, nitrophoska, fused Ca-Mg ***phosphate***, defluorinated ***phosphate***, Thomas ***phosphate***, ordinary superphosphate, calcium ***phosphate***, Ca ***phosphate***, and ground ***phosphate*** rock ***fertilizer***; and the ***humic*** ***acid*** ***fertilizer*** from one or more of Na ***humate***, K ***humate***, NH_4 ***humate***, ***humic*** ***acid***, nitro- ***humic*** ***acid***. The coated ***fertilizer*** is prepd. by inhaling coating material in sprayer by 0.3-0.5 MPa compressed air, coating the ***granular*** by spraying coating material, drying, and oxidizing. The addn. of the coating material is 6-10 kg/ton. The equipment is composed of reactor, filter, pump, storage tank, elevated tank, coating sprayer, and pelleting tower. The coating sprayer is composed of air-spraying pipe, coat-emulsifying pipe, const.-diam. spray pipe, nozzle, and air entrance. The const.-diam. spray pipe is connected with coat-emulsifying pipe at one mouth, with nozzle at another mouth. The coat-emulsifying pipe is composed of a flange at its front-end, a content-diam. piper at the medium, a columnar cavity connected with two expanded-diam. pipes at each end between flange and medium, and a coat-entrance pipe mounted nearby flange. The spout diam. of nozzle is 6-8 mm.